

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp          |
|-------|------|---|------------------------------|------------------|---------|---------------------|
| L2    | 1    | ("5991605").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2009/10/21<br>11:20 |
| L4    | 27   | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$).did, or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$ or US-6256130-\$ or US-5113065-\$ or US-6104959-\$ or US-5991605-\$).did. | US-PGPUB;<br>USPAT           | OR               | OFF     | 2009/10/21<br>12:03 |
| L5    | 4    | 4 and (phase near lock\$3)  | US-PGPUB;<br>USPAT           | OR               | OFF     | 2009/10/21<br>12:04 |
| L6    | 91   | ("20010016762"   "20010020178"   "20010020180"   "20010029368"   "20010034519"   "20010039416"   "20010044643"   "20020022836"   "20020043326"   "20020058932"   "20020065529"   "20020072645"   "20020087151"   "20020091427"   "20020120261"   "20020128642"   "20020133151"   "20020134779"   "20020165529"   "20020193783"   "20020193786"   "20020193849"   "20030004454"   "20030065317"  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2009/10/21<br>13:11 |

|     |        |   |                        |    |     |                  |
|-----|--------|---|------------------------|----|-----|------------------|
|     |        | "20030069575"   "20030069619"   "20030073988"   "20030195500"   "20040064606"   "20040071317"   "20040084748"   "4114623"   "4209018"   "4397313"   "4488559"   "4825880"   "5057106"   "5108391"   "5227730"   "5364392"   "5370678"   "5405346"   "5496271"   "5507791"   "5509916"   "5518861"   "5557283"   "5693082"   "5713946"   "5720718"   "5749869"   "5807257"   "5810803"   "5829437"   "5868739"   "5906609"   "5944749"   "5957969"   "6002968"   "6016811"   "6026331"   "6047215"   "6148236"   "6245062"   "6251128"   "6287302"   "6306132"   "6311090"   "6312427"   "6325796"   "6334074"   "6345194"   "6347251"   "6350276"   "6383182"   "6413225"   "6413255"   "6421550"   "6448788"   "6463336"   "6470217"   "6471696"   "6477426"   "6527768"   "6582426"   "6635055"   "6652520"   "6684097"   "6699237"   "0663622"), PN. |                        |    |     |                  |
| L7  | 23     | 4 not L6  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/21 13:11 |
| L8  | 541    | 607/154-156.cols.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/21 13:20 |
| L9  | 171678 | microwave   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/21 13:20 |
| L10 | 40691  | impedance near (adjusting adjuster matching)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/21 13:20 |
| L11 | 101    | 8 and L9 and L10  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/21 13:20 |
| L12 | 41     | 11 and ablation   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/21 13:20 |

|     |        |  |                              |    |     |                     |
|-----|--------|--|------------------------------|----|-----|---------------------|
| L13 | 38288  | "local oscillator"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/21<br>13:21 |
| L14 | 1      | 11 and L13   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/21<br>13:21 |
| L15 | 1      | 11 and heterodyne  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/21<br>13:22 |
| L16 | 389640 | (minimize\$1 minimizing<br>reduce\$1 reduction<br>reducing minimization<br>cancellation filter filtering)<br>with (noise reflectance<br>reflected backscattering<br>backscattered) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:22 |
| L17 | 65     | 8 and 9 and L16  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:22 |
| L18 | 32     | 17 and ablation  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:22 |
| L19 | 0      | 18 and 13  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:23 |
| L20 | 799    | 606/34.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:24 |
| L21 | 173    | 606/38.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:24 |
| L22 | 4155   | 606/41,42.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:24 |
| L23 | 40     | 20 and 9 and L16   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:24 |
| L24 | 2      | 21 and 9 and L16   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:25 |
| L25 | 112    | 22 and 9 and L16   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:25 |
| L26 | 126    | 23 24 25   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:25 |
| L27 | 105    | 26 and (ablat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:25 |
| L28 | 1      | 26 and (heterodyne "local<br>oscillator")  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:25 |

| L29 | 26 | 26 and 10  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/21<br>13:25 |
|-----|----|--|------------------------------|----|-----|---------------------|
| S1  | 91 | ( "20010016762"  <br>"20010020178"  <br>"20010020180"  <br>"20010029368"  <br>"20010034519"  <br>"20010039416"  <br>"20010044643"  <br>"20020022836"  <br>"20020043326"  <br>"20020058932"  <br>"20020065529"  <br>"20020072645"  <br>"20020087151"  <br>"20020091427"  <br>"20020120261"  <br>"20020128642"  <br>"20020133151"  <br>"20020134779"  <br>"20020165529"  <br>"20020193783"  <br>"20020193786"  <br>"20020193849"  <br>"20030004454"  <br>"20030065317"  <br>"20030069575"  <br>"20030069619"  <br>"20030073988"  <br>"20030195500"  <br>"20040064606"  <br>"20040071317"  <br>"20040084748"  <br>"4114623"   "4209018"  <br>"4397313"   "4488559"  <br>"4825880"   "5057106"  <br>"5108391"   "5227730"  <br>"5364392"   "5370678"  <br>"5405346"   "5496271"  <br>"5507791"   "5509916"  <br>"5518861"   "5557283"  <br>"5693082"   "5713946"  <br>"5720718"   "5749869"  <br>"5807257"   "5810803"  <br>"5829437"   "5868739"  <br>"5906609"   "5944749"  <br>"5957969"   "6002968"  <br>"6016811"   "6026331"  <br>"6047215"   "6148236"  <br>"6245062"   "6251128"  <br>"6287302"   "6306132"  <br>"6311090"   "6312427"  <br>"6325796"   "6334074"  <br>"6345194"   "6347251"  <br>"6350276"   "6383182"  <br>"6413225"   "6413255"  <br>"6421550"   "6448788"  <br>"6463336"   "6470217" | US-PGPUB;                    | OR | OFF | 2009/10/13<br>13:09 |

|     |         |  |                        |    |     |                  |
|-----|---------|--|------------------------|----|-----|------------------|
|     |         | "6471696"   "6477426"   "6527768"   "6582426"   "6635055"   "6652520"   "6684097"   "6699237"   "0663622").PN. |                        |    |     |                  |
| S2  | 171383  | microwave  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:09 |
| S3  | 40630   | impedance near (adjusting adjuster matching)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:10 |
| S4  | 38226   | "local oscillator"   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:10 |
| S5  | 4393    | complex near impedance\$1  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:10 |
| S6  | 75      | S2 and S1  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:10 |
| S7  | 26      | S3 and S1  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:10 |
| S8  | 1       | S7 and S4  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:10 |
| S9  | 351     | dynamic with S3  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:14 |
| S10 | 121     | S9 and microwave   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:14 |
| S11 | 4079185 | @ad<"20021127"   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:15 |
| S12 | 41      | S10 and S11  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:15 |
| S13 | 509977  | ablation tissue  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:15 |
| S14 | 59077   | ablate ablation ablating   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:15 |
| S15 | 0       | S14 and S12  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:15 |
| S16 | 570626  | medical surgical   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 13:15 |

|     |         |  |                              |    |     |                     |
|-----|---------|--|------------------------------|----|-----|---------------------|
| S17 | 8       | S16 and S12                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:16 |
| S18 | 9522    | S2 and S3                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:21 |
| S19 | 811     | S18 and S4                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:21 |
| S20 | 5       | S19 and S14                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:21 |
| S21 | 14231   | heterodyne                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:29 |
| S22 | 28      | S21 and microwave and ablat\$3                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:29 |
| S23 | 9       | S22 and S11                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>13:29 |
| S24 | 504     | 606/33.cols.                                   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>15:59 |
| S25 | 338     | S24 and microwave                              | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>15:59 |
| S26 | 3       | S25 and (local near oscillator)                | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:00 |
| S27 | 3       | S25 and (detect\$3 same (magnitude and phase)) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/13<br>16:00 |
| S28 | 38226   | "local oscillator"                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S29 | 4079185 | @ad<"20021127"                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S30 | 14231   | heterodyne                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S31 | 28      | S30 and microwave and ablat\$3                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S32 | 9       | S31 and S29                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S33 | 4       | S28 and S32                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |

|     |         |  |                              |    |     |                     |
|-----|---------|--|------------------------------|----|-----|---------------------|
| S34 | 171383  | microwave  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S35 | 7200    | S28 and S34  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:04 |
| S36 | 7200    | S28 and S34  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:05 |
| S37 | 4352    | S36 and S29  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:05 |
| S38 | 8       | S37 and (ablation)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>16:05 |
| S39 | 136     | S25 and S29  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:11 |
| S40 | 50      | S39 and ((impedance with<br>(match\$3 adjust\$3))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:12 |
| S41 | 99054   | (magnitude same phase)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:12 |
| S42 | 6       | S41 and S40  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:12 |
| S43 | 50      | S39 and ((impedance<br>impedance) with (match\$3<br>adjust\$3))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:17 |
| S44 | 1965322 | (sensor sensing detector<br>detecting)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/13<br>17:18 |
| S45 | 418934  | (sensor sensing detector<br>detecting) with (reflected<br>forward backward<br>reflecting radiation<br>magnitude phase)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/13<br>17:18 |
| S46 | 10      | S45 and S43  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/13<br>17:19 |
| S47 | 41      | ("4073287"   "4476872"  <br>"4611604"   "5044375"  <br>"5344441"   "5374287"  <br>"5398683"   "5405346"  <br>"5405375"   "5417208"  <br>"5450846"   "5545193").<br>PN. OR ("5788692") URPN | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:57 |
| S48 | 23      | S47 and microwave  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:57 |

|     |       |  |                              |    |     |                     |
|-----|-------|--|------------------------------|----|-----|---------------------|
| S49 | 82368 | ((impedance impedances) with (match\$3 adjust\$3))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:57 |
| S50 | 15    | S49 and S47  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:58 |
| S51 | 10    | S50 and S29  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>17:58 |
| S52 | 9     | (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$).did.   | USPAT                        | OR | OFF | 2009/10/13<br>18:22 |
| S53 | 0     | S52 and (local near oscillator)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>18:23 |
| S54 | 0     | S52 and (local near oscillator\$1)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>18:23 |
| S55 | 691   | ("1586645"   "20010031961"   "20020017306"   "20020032440"   "20020042610"   "20020042611"   "20020045895"   "20020087151"   "20020087157"   "20020091382"   "20020091383"   "20020091384"   "20020095145"   "20020103484"   "20020107513"   "20020107514"   "20020111613"   "20020115993"   "20020120263"   "20020120267"   "20020120316"   "20020128639"   "20020128642"   "20020173784"   "20020193783"   "20020193786"   "20030024537"   "20030028187"   "20030029462"   "20030032952"   "20030050630"   "20030050631"   "20030065327"   "20030069572"   "20030069574" | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/13<br>18:23 |

|                         |                       |
|-------------------------|-----------------------|
| "20030069575"           | "20030069577"         |
| "20030073988"           | "20030073992"         |
| "20030078571"           | "20030079753"         |
| "20030083654"           | "20030093068"         |
| "20030097126"           | "20030109868"         |
| "20030125666"           | "20030125725"         |
| "20030125729"           | "20030125729"         |
| "20030136951"           | "20030158547"         |
| "20030158548"           | "20030163128"         |
| "20030171745"           | "20030176764"         |
| "20030181907"           | "20040002045"         |
| "200400044340"          | "20040049179"         |
| "20040049208"           | "20040068274"         |
| "20040092990"           | "20040106918"         |
| "3095880"   "3598108"   | "3827436"   "3831607" |
| "3886944"   "3919638"   | "3976082"   "4011872" |
| "4033357"   "4045056"   | "4073287"   "4103688" |
| "4204549"   "4244371"   | "4268937"   "4312364" |
| "4416276"   "4445892"   | "4448198"   "4462412" |
| "4465079"   "4476872"   | "4494539"   "4522212" |
| "4527550"   "4564200"   | "4565200"   "4573473" |
| "4583556"   "4601296"   | "4611604"   "4640983" |
| "4641646"   "4641649"   | "4643186"   "4655219" |
| "4657015"   "4660571"   | "4681122"   "4685459" |
| "4699147"   "4700716"). | PN. OR ("4763668"     |
| "4776086"   "4785815"   | "4800899"   "4813429" |
| "4823812"   "4825880"   | "4832048"   "4841988" |
| "4841990"   "4881543"   | "4881483"   "4920978" |
| "4924863"   "4924864"   | "4932420"   "4938217" |
| "4945912"   "4960134"   | "4966597"   "4976711" |
| "5007437"   "5019076"   |                       |

|           |                                |
|-----------|--------------------------------|
| "5044375" | "5045056"                      |
| "5057106" | "5078713"                      |
| "5080101" | "5080102"                      |
| "5085659" | "5097845"                      |
| "5100388" | "5104393"                      |
| "5108390" | "5111822"                      |
| "5114403" | "5129396"                      |
| "5139496" | "5147355"                      |
| "5147357" | "5150717"                      |
| "5156151" | "5158092"                      |
| "5171255" | "5172699"                      |
| "5186181" | "5188122"                      |
| "5190054" | "5192278"                      |
| "5207672" | "5207674"                      |
| "5222501" | "5230334"                      |
| "5230349" | "5242441"                      |
| "5246438" | "5248312"                      |
| "5263493" | "5281213"                      |
| "5281215" | "5281217"                      |
| "5293869" | "5295484"                      |
| "5295955" | "5300068"                      |
| "5300099" | "5301687"                      |
| "5304207" | "5313943"                      |
| "5314466" | "5318525"                      |
| "5323781" | "5327889"                      |
| "5334168" | "5341807"                      |
| "5344431" | "5344441"                      |
| "5348554" | "5358515"                      |
| "5364336" | "5364351"                      |
| "5364352" | "5364392"                      |
| "5366490" | "5368592"                      |
| "5369251" | "5370644"                      |
| "5370675" | "5370677"                      |
| "5370678" | "5374287"                      |
| "5376094" | "5383876"                      |
| "5383922" | "5391147"                      |
| "5397304" | "5398683"                      |
| "5402772" | "5403312"                      |
| "5405346" | "5405375"                      |
| "5405376" | "5415656"                      |
| "5416588" | "5417208"                      |
| "5423807" | "5431649"                      |
| "5437665" | "5439006"                      |
| "5443489" | "5445193"                      |
| "5450846" | "5452733"                      |
| "5454370" | "5454733"                      |
| "5454807" | "5462544"                      |
| "5462545" | "5464404"                      |
| "5470308" | "5470352"                      |
| "5482037" | "5484433"                      |
| "5487757" | "5492126".<br>PN. OR ("5494039 |
| "5496271" | "5496312"                      |
| "5500012" | "5507743"                      |
| "5514131" | "5520188"                      |
| "5529820" | "5531677"                      |
| "5536247" | "5540681"                      |
| "5540684" | "5545193"                      |
| "5545200" | "5549638"                      |
| "5549644" | "5549661"                      |

|                       |             |
|-----------------------|-------------|
| "5569242"             | "5571088"   |
| "5571215"             | "5575766"   |
| "5575810"             | "5578030"   |
| "5578067"             | "5581905"   |
| "5584830"             | "5590657"   |
| "5593404"             | "5593405"   |
| "5599295"             | "5599346"   |
| "5603697"             | "5606974"   |
| "5607389"             | "5628771"   |
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| "5643255"             | "5643335"   |
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| "5924424"   "5931810" |             |

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| "6423059"   "6428538" |             |
| "6430426"   "6432067" |             |

|     |    |   |                        |    |     |                  |
|-----|----|---|------------------------|----|-----|------------------|
|     |    | "6432069"   "6433464"   "6454758"   "6461314"   "6464700"   "6467138"   "6471696"   "6471697"   "6474340"   "6484727"   "6488639"   "6488679"   "6488680"   "6490474"   "6500133"   "6502575"   "6508774"   "6511478"   "6514246"   "6514249"   "6517536"   "6526320"   "6527767"   "6527768"   "6529756"   "6533780"   "6542781"   "6546935"   "6576875"   "6584360"   "6586040"   "6610055"   "6645200"   "6645202"   "6652513"   "6663622"   "6673068"   "6689062"   "6689128"   "6692491"   "6701931"   "6706038"   "6719755"   "6802840"   "6805709"   "6808484"   "6808529"   "6808536"   "RE33590").PN. OR ("4315510"   "5364392"   "5405346"   "5788692"   "6233490"   "6471696"   "6673068"   "6802840"   "7226446").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 18:23 |
| S56 | 2  | S55 and (local near oscillator\$1)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 18:23 |
| S57 | 3  | S55 and (mixer)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/13 18:25 |
| S58 | 34 | "triple stub tuner"   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/14 09:51 |
| S59 | 1  | ("5957969").PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/14 10:53 |
| S60 | 53 | ("4244371"   "4416276"   "4494539"   "4641649"   "4657015"   "4841990"   "4924863"   "4945912"   "5019076"   "5045056"   "5100388"   "5150717"   "5172699"   "5188122"   "5246438"   "5248312"   "5300068"   "5300099"   "5507743"   "5628771").PN. OR ("5957969").URPN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/14 10:57 |
| S61 | 0  | S60 and mixer   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/14 10:58 |

|     |       |  |                              |    |     |                     |
|-----|-------|--|------------------------------|----|-----|---------------------|
| S62 | 7     | S60 and oscillator   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>10:58 |
| S63 | 8     | S60 and oscillator\$1  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>10:58 |
| S64 | 6     | S63 and @ad<"20021127"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>10:59 |
| S65 | 7     | ("4580562"   "5188122"  <br>"5720744"   "5749869"  <br>"5957969"   "5976128"  <br>"6010499").PN. OR<br>("6890331").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:00 |
| S66 | 7     | ("4580562"   "5188122"  <br>"5720744"   "5749869"  <br>"5957969"   "5976128"  <br>"6010499").PN. OR<br>("6890331").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:10 |
| S67 | 46603 | (local locally) with (oscillator<br>\$1)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:14 |
| S68 | 2389  | S67 same microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:14 |
| S69 | 1020  | S68 same (phase\$1<br>magnitude\$1)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:14 |
| S70 | 0     | S69 and S64  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:15 |
| S71 | 465   | S69 and @ad<"20021127"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:15 |
| S72 | 45996 | (local with oscillator\$1)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:15 |
| S73 | 22    | S72 same (microwave)<br>same (impedance\$1) same<br>(phase\$1 and magnitude<br>\$1)                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:15 |
| S74 | 1     | S73 and @ad<"20021127"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:15 |
| S75 | 230   | S72 same (impedance\$1)<br>same (phase\$1 and<br>magnitude\$1)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:19 |
| S76 | 48    | S75 and microwave  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:19 |

|     |         |  |                              |    |     |                     |
|-----|---------|--|------------------------------|----|-----|---------------------|
| S77 | 8       | S76 and @ad<"20021127"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:19 |
| S78 | 1037    | 607/101.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:29 |
| S79 | 353     | 607/102.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:29 |
| S80 | 5       | S78 and (local with oscillator\$1)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:29 |
| S81 | 167     | (detector\$1 sensor\$1) with (phase with magnitude) with (forward reflected)             | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:34 |
| S82 | 24      | S81 same microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:34 |
| S83 | 9       | S82 and @ad<"20021127"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:34 |
| S84 | 2       | S78 and heterodyne   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:38 |
| S85 | 755     | (detector\$1 sensor\$1) with (phase with (magnitude amplitude)) with (forward reflected) | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:40 |
| S86 | 60      | S85 same microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:40 |
| S87 | 4079185 | @ad<"20021127"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:40 |
| S88 | 25      | S86 and S87  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:40 |
| S89 | 40      | S85 and microwave and S67  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:41 |
| S90 | 20      | S89 and S87  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>11:41 |

|      |       |  |                              |    |     |                     |
|------|-------|--|------------------------------|----|-----|---------------------|
| S91  | 17    | (US-20020112819-\$).did.<br>or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$).did. | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>12:36 |
| S92  | 4     | S91 and (local with oscillator)  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>12:36 |
| S93  | 6     | (stub with tuner) same ("local oscillator")  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>12:42 |
| S94  | 0     | ("2002057151").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>14:49 |
| S95  | 0     | ("2002087151").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>14:49 |
| S96  | 1     | ("20020087151").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>14:50 |
| S97  | 2     | (("5057106") or ("4825880")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>14:53 |
| S98  | 13453 | (heterodyne superheterodyne)   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:01 |
| S99  | 2419  | S98 and microwave  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:02 |
| S100 | 1501  | S99 and S87  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:02 |
| S101 | 40630 | impedance near (adjusting adjuster matching)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/14<br>15:15 |
| S102 | 143   | S100 and S101  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:15 |
| S103 | 16    | S102 and (ablation ablate medical surgical ablating)   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:16 |
| S104 | 90    | S102 and S72   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:25 |
| S105 | 12    | S104 and (ablation ablate medical surgical ablating)   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:25 |
| S106 | 17    | ortiz in. and laparoscopic and hand  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>15:45 |
| S107 | 340   | heterodyne with mixer with local   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/14<br>16:03 |

|      |         |   |                        |    |     |                  |
|------|---------|---|------------------------|----|-----|------------------|
| S108 | 562     | (heterodyne superheterodyne) with mixer with local  | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 16:03 |
| S109 | 148     | S108 and microwave  | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 16:03 |
| S110 | 106     | S109 and S87  | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 16:03 |
| S111 | 1       | (10/536721).APP.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/14 18:22 |
| S112 | 21      | (US-20020112819-\$ or US-20020105455-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$).did. | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 19:09 |
| S113 | 8       | S112 and (oscillator\$1 heterodyne superheterodyne) and (impedance)   | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 19:09 |
| S114 | 0       | S112 and (oscillator\$1 heterodyne superheterodyne) and (impedance) and ablat\$3  | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 19:09 |
| S115 | 1       | S112 and electrosurgical and impedance  | US-PGPUB; USPAT        | OR | OFF | 2009/10/14 19:48 |
| S116 | 2296    | "local oscillator" same (phase and (magnitude amplitude)) same mixer  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/16 11:51 |
| S117 | 621     | S116 and microwave  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/16 11:51 |
| S118 | 4079186 | @ad<"20021127"  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/16 11:51 |
| S119 | 290     | S117 and S118   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/16 11:51 |
| S120 | 48      | S119 and heterodyne   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/16 11:51 |

|      |         |  |                        |    |     |                  |
|------|---------|--|------------------------|----|-----|------------------|
| S121 | 129     | (heterodyne with (detector \$1 detecting receiver)) same (amplitude magnitude) same phase same oscillator  | US-PGPUB; USPAT        | OR | OFF | 2009/10/16 12:13 |
| S122 | 79      | S121 and S118  | US-PGPUB; USPAT        | OR | OFF | 2009/10/16 12:13 |
| S123 | 28      | S122 and microwave   | US-PGPUB; USPAT        | OR | OFF | 2009/10/16 12:13 |
| S124 | 22      | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$).did. | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 12:40 |
| S125 | 261     | heterodyne same oscillator same phase same (amplitude magnitude) same (detection)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 12:44 |
| S126 | 42      | S125 and microwave   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 12:44 |
| S127 | 4079357 | @ad<"20021127"   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 12:44 |
| S128 | 17      | S126 and S127  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 12:44 |
| S129 | 4955    | heterodyne with detect\$3  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:08 |
| S130 | 3208    | S129 and (phase and (amplitude magnitude))   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:08 |
| S131 | 1605    | S130 and S127  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:08 |
| S132 | 948     | S129 same (phase and (amplitude magnitude))  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:09 |
| S133 | 109     | S129 same (phase and (amplitude magnitude)) same mixing  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:09 |

|      |       |  |                        |    |     |                  |
|------|-------|--|------------------------|----|-----|------------------|
| S134 | 6     | S129 same (phase and (amplitude magnitude)) same mixing same distortion  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:09 |
| S135 | 109   | S129 same (phase and (amplitude magnitude)) same mixing  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:11 |
| S136 | 30    | S135 and S127  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:11 |
| S137 | 18070 | (minimize reduce) with (reflectance reflected backscattering)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:16 |
| S138 | 24579 | S137 sand S129   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:16 |
| S139 | 9     | S137 same S129   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:16 |
| S140 | 2     | S139 and S127  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:16 |
| S141 | 435   | S129 with (reflectance reflected backscattering backscattered)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:18 |
| S142 | 234   | S141 and S127  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:18 |
| S143 | 35    | S142 and microwave   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 13:18 |
| S144 | 85977 | (minimize\$1 minimizing reduce\$1 reduction reducing minimization cancellation filter filtering) with (reflectance reflected backscattering backscattered) | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 13:19 |
| S145 | 564   | S144 and S129  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 13:19 |
| S146 | 85    | S144 same S129   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 13:19 |
| S147 | 34    | S146 and S127  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 13:19 |

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|------|--------|--|------------------------------|----|----|---------------------|
| S148 | 389640 | (minimize\$1 minimizing reduce\$1 reduction reducing minimization cancellation filter filtering) with (noise reflectance reflected backscattering backscattered) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:51 |
| S149 | 317594 | (minimize\$1 minimizing reduce\$1 reduction reducing minimization cancellation filter filtering) with (noise)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:52 |
| S150 | 1475   | S149 and S129  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:52 |
| S151 | 340    | S150 and microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:52 |
| S152 | 69     | S151 and (local) and (impedance) and phase   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:52 |
| S153 | 42     | S152 and S127  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:53 |
| S154 | 90     | S150 and S127 and (local) and (impedance) and phase  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:53 |
| S155 | 60     | S150 and S127 and (local) and (impedance) and (phase same (amplitude magnitude))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>13:54 |
| S156 | 529    | heterodyne with advantages   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>14:28 |
| S157 | 256    | S156 and S127  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>14:28 |
| S158 | 63     | S157 and microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/10/20<br>14:28 |

|      |    |  |                        |    |     |                  |
|------|----|--|------------------------|----|-----|------------------|
| S159 | 24 | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$ or US-6256130-\$).did. | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 14:31 |
| S160 | 6  | S159 and heterodyne  | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 14:31 |
| S161 | 13 | (heterodyne with (receiver detector)) with eliminate   | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 14:44 |
| S162 | 10 | S161 and S127  | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 14:44 |
| S163 | 1  | "10536721"   | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 14:55 |
| S164 | 24 | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$ or US-6256130-\$).did. | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 16:32 |
| S165 | 21 | S164 and impedance   | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 16:33 |
| S166 | 6  | S164 and heterodyne  | US-PGPUB; USPAT        | OR | OFF | 2009/10/20 16:59 |
| S167 | 7  | ("4580562"   "5188122"   "5720744"   "5749869"   "5957969"   "5976128"   "6010499").PN. OR ("6890331").URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 17:52 |

|      |         |  |                        |    |     |                  |
|------|---------|--|------------------------|----|-----|------------------|
| S168 | 22016   | ((minimize\$1 minimizing reduce\$1 reduction reducing minimization cancellation filter filtering) with (reflectance reflected backscattering backscattered noise)) and microwave | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:24 |
| S169 | 1063    | S168 and heterodyne  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:24 |
| S170 | 4079357 | @ad<"20021127"   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 19:24 |
| S171 | 510     | S169 and S170  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:24 |
| S172 | 325     | S171 and (local near oscillator\$1)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:25 |
| S173 | 31      | S172 and (medical surgical)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:25 |
| S174 | 5698    | "local oscillator" same (phase same (amplitude magnitude))   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:27 |
| S175 | 16878   | "local oscillator" and (phase same (amplitude magnitude))  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S176 | 361     | S174 same microwave\$1   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S177 | 107     | S176 and S170  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S178 | 0       | S177 and ("606"/\$.cds.)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S179 | 0       | S177 and ("607"/\$.cds.)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S180 | 0       | S177 and ("604"/\$.cds.)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S181 | 0       | S177 and ("600"/\$.cds.)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:28 |
| S182 | 589     | (heterodyne with (benefits advantages))  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 19:33 |

|      |      |   |                              |    |     |                     |
|------|------|---|------------------------------|----|-----|---------------------|
| S183 | 2412 | (impedance with matching) with phase  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:33 |
| S184 | 234  | S183 same microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:33 |
| S185 | 8    | S184 and ablation   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:33 |
| S186 | 3    | S185 and S170   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:33 |
| S187 | 6455 | (impedance with matching) same phase  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:36 |
| S188 | 672  | S187 same microwave   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:36 |
| S189 | 9    | S188 and ablation   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/10/20<br>19:36 |
| S190 | 0    | (advantage with heterodyne with (cancellation))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/20<br>20:20 |
| S191 | 3    | (advantage with heterodyne same (cancellation))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/20<br>20:20 |
| S192 | 26   | (US-20020112819-\$ or US-20060273255-\$ or US-20020158212-\$ or US-20020105455-\$).did. or (US-5113065-\$ or US-5675259-\$ or US-5519359-\$ or US-6020795-\$ or US-6236366-\$ or US-6256130-\$ or US-4059803-\$ or US-5704355-\$ or US-4627442-\$ or US-6890331-\$ or US-5788692-\$ or US-7226446-\$ or US-6673068-\$ or US-6471696-\$ or US-4315510-\$ or US-5364392-\$ or US-6802840-\$ or US-5405346-\$ or US-6233490-\$ or US-6104959-\$ or US-5957969-\$ or US-4550609-\$). did. | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/20<br>20:25 |
| S193 | 12   | S192 and ((heterodyne) or (local near oscillator))  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/20<br>20:26 |

|      |         |  |                              |    |     |                     |
|------|---------|--|------------------------------|----|-----|---------------------|
| S194 | 26      | (US-20020112819-\$ or US-20020105455-\$ or US-20060273255-\$ or US-20020158212-\$).did. or (US-5788692-\$ or US-7226446-\$ or US-6802840-\$ or US-6673068-\$ or US-6471696-\$ or US-6233490-\$ or US-5405346-\$ or US-5364392-\$ or US-4315510-\$ or US-4627442-\$ or US-6020795-\$ or US-5957969-\$ or US-6890331-\$ or US-5519359-\$ or US-4059803-\$ or US-5675259-\$ or US-4550609-\$ or US-5704355-\$ or US-6236366-\$ or US-6256130-\$ or US-5113065-\$ or US-6104959-\$).did. | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/21<br>01:13 |
| S195 | 5       | S194 and "local oscillator" and heterodyne   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/21<br>01:13 |
| S196 | 120     | (mixer same power same phase same heterodyne)  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/21<br>01:42 |
| S197 | 58      | (mixer same power same phase same heterodyne same local)   | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/21<br>01:42 |
| S198 | 4079357 | @ad< "20021127"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/10/21<br>01:42 |
| S199 | 39      | S197 and S198  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/10/21<br>01:42 |

**EAST Search History (Interference)**

&lt;This search history is empty&gt;

10/ 21/ 2009 1:31:25 PM

C:\Documents and Settings\vchen2\My Documents\EAST Workspaces\10536721 tissue ablation apparatus and method of ablating.wsp